

**ABSTRACT**

A USB device controller is disclosed that provides excess processing resources for a peripheral device. The disclosed high speed communication controller controls communications between a host computer and at least one peripheral device. The disclosed communication controller includes a processor for controlling communications on a bus using one or more communication functions, wherein the processor performs at least one function for the peripheral device in addition to the one or more communication functions. Generally, the processor in the communication controller provides processing capacity for use by the peripheral device in addition to processing of the one or more communication functions. The high speed communications can conform, for example, to a USB standard, an IEEE 1394 standard or an IEEE 802.11 standard.

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